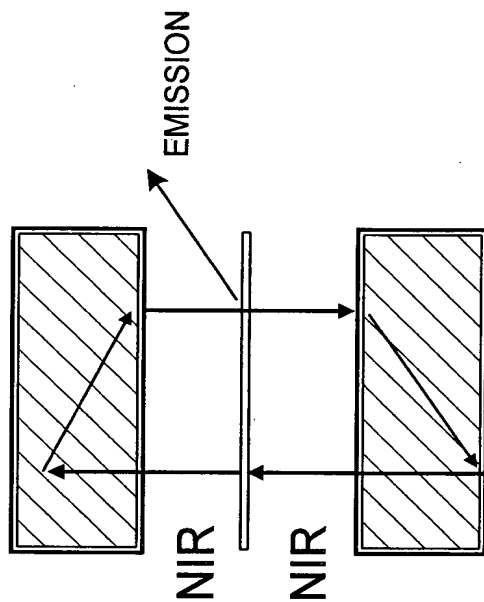
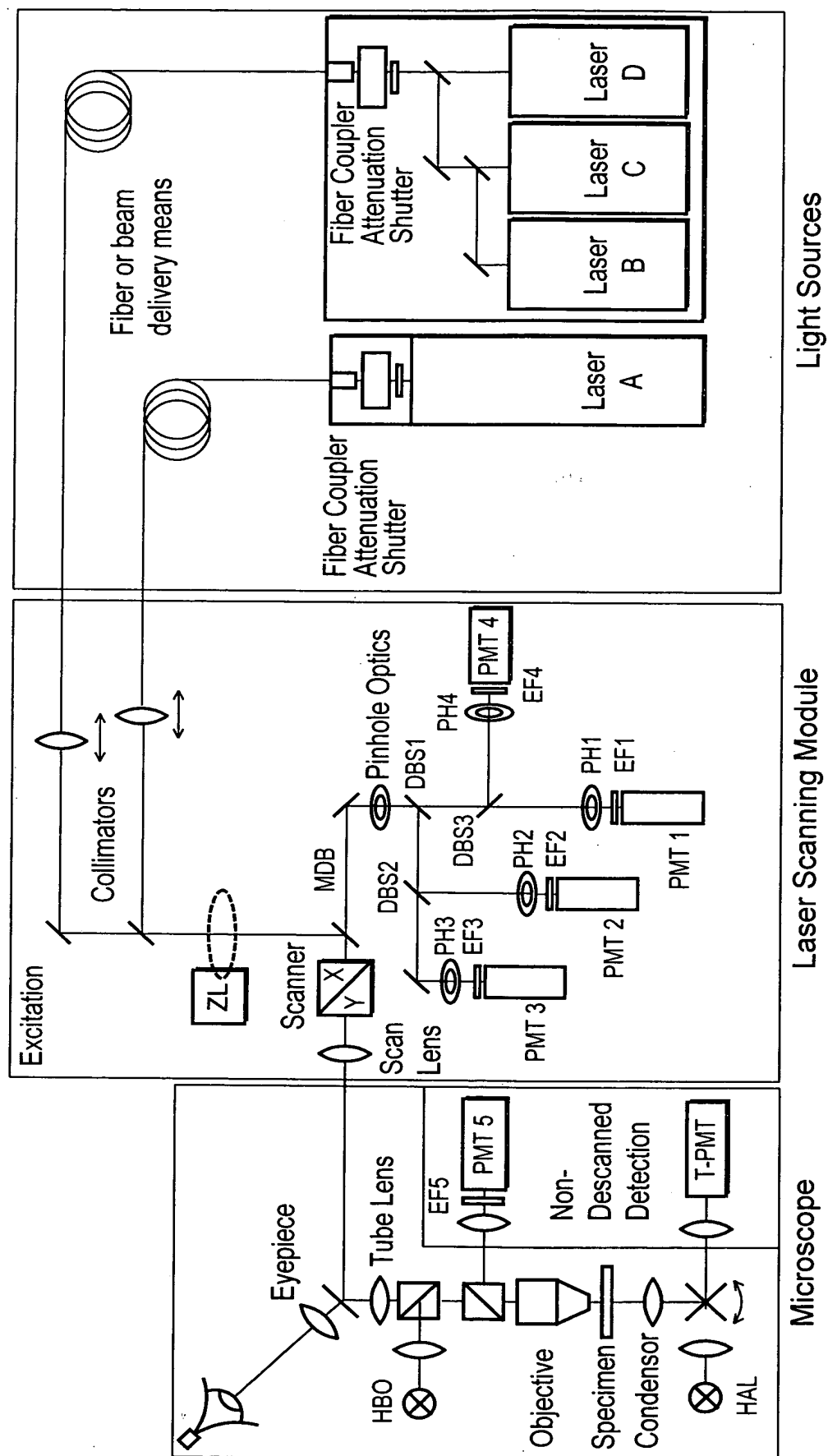


a) Single-photon absorption



b) Multiphoton absorption

FIG. 1
PRIOR ART



LSM Construction

FIG. 2
PRIOR ART

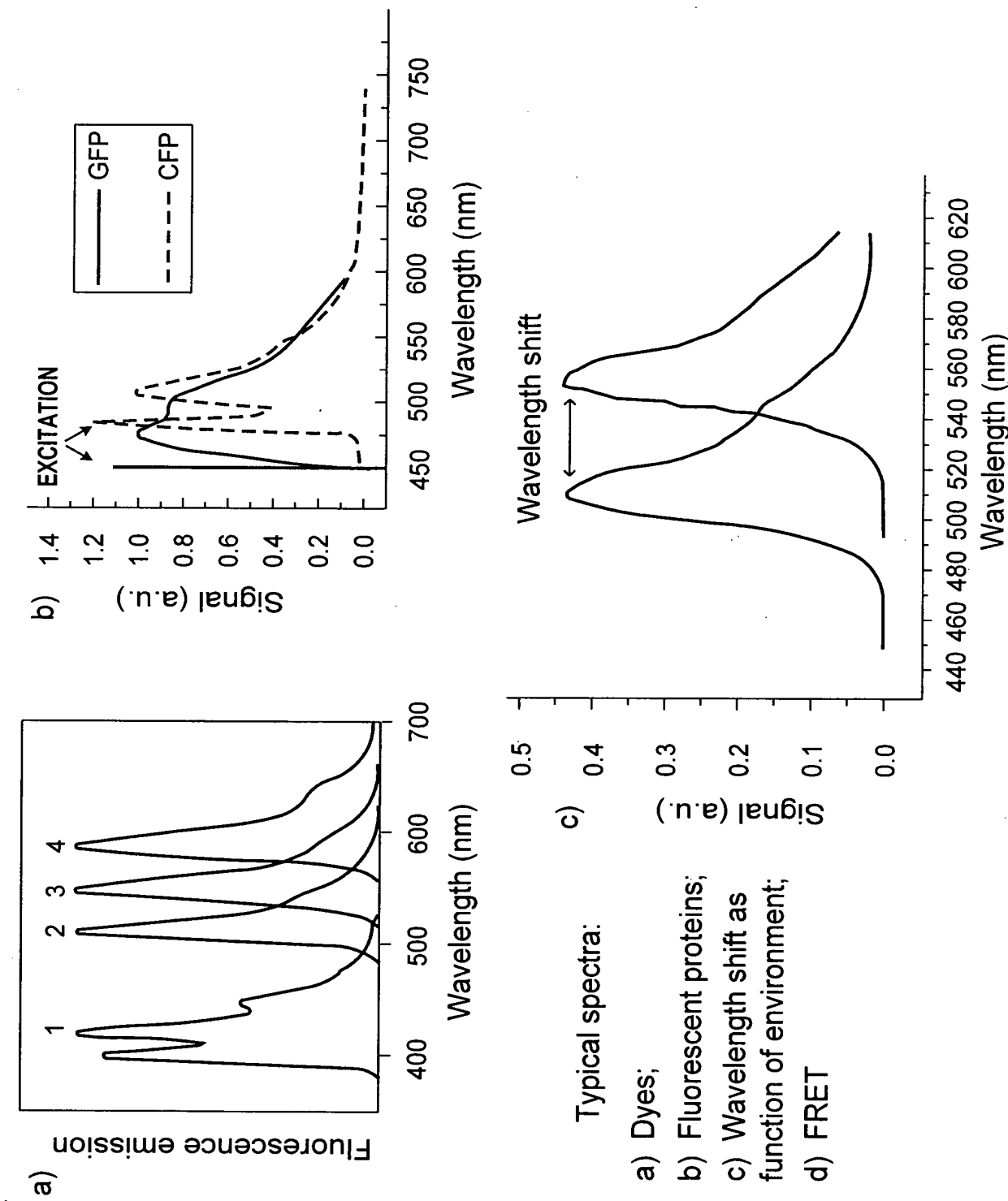
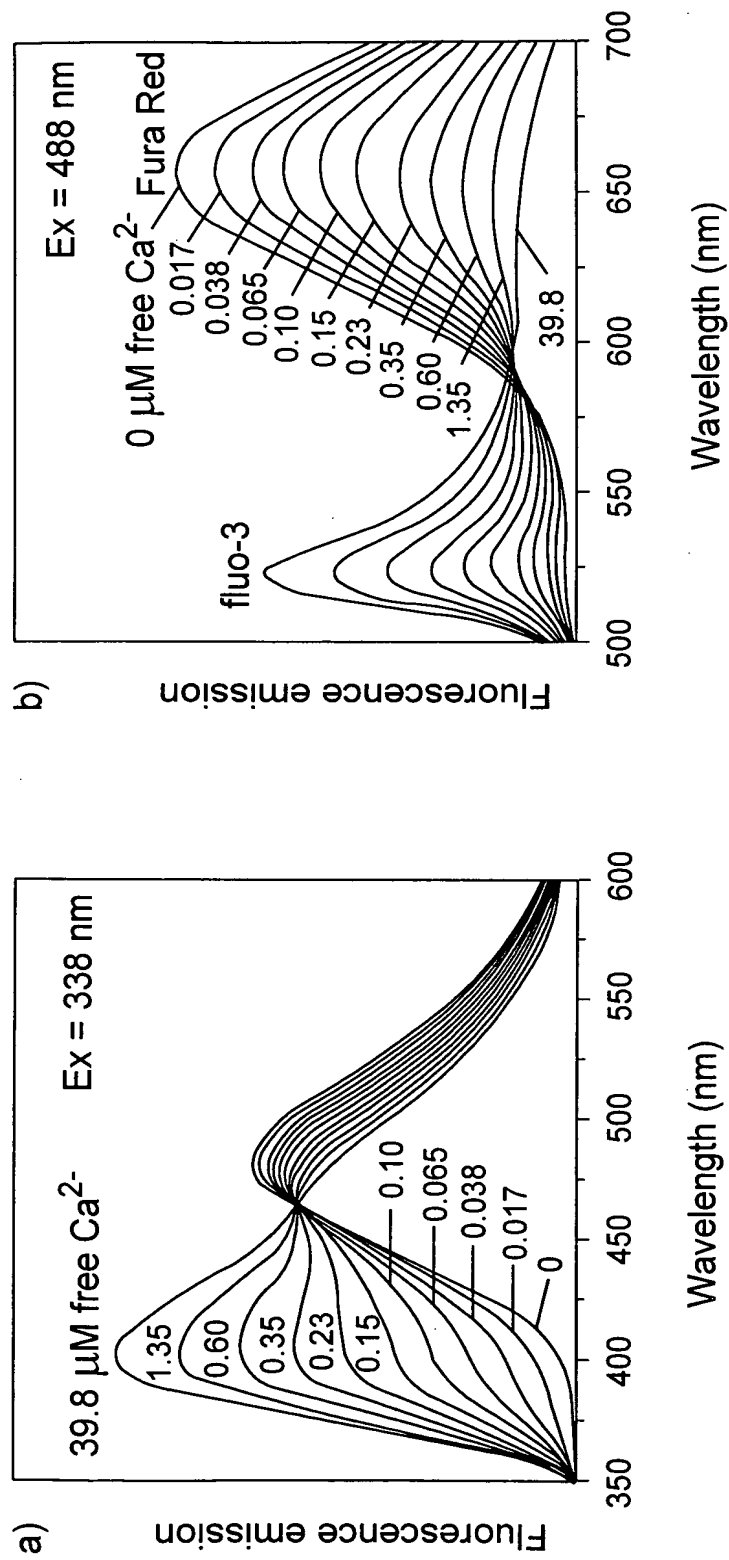


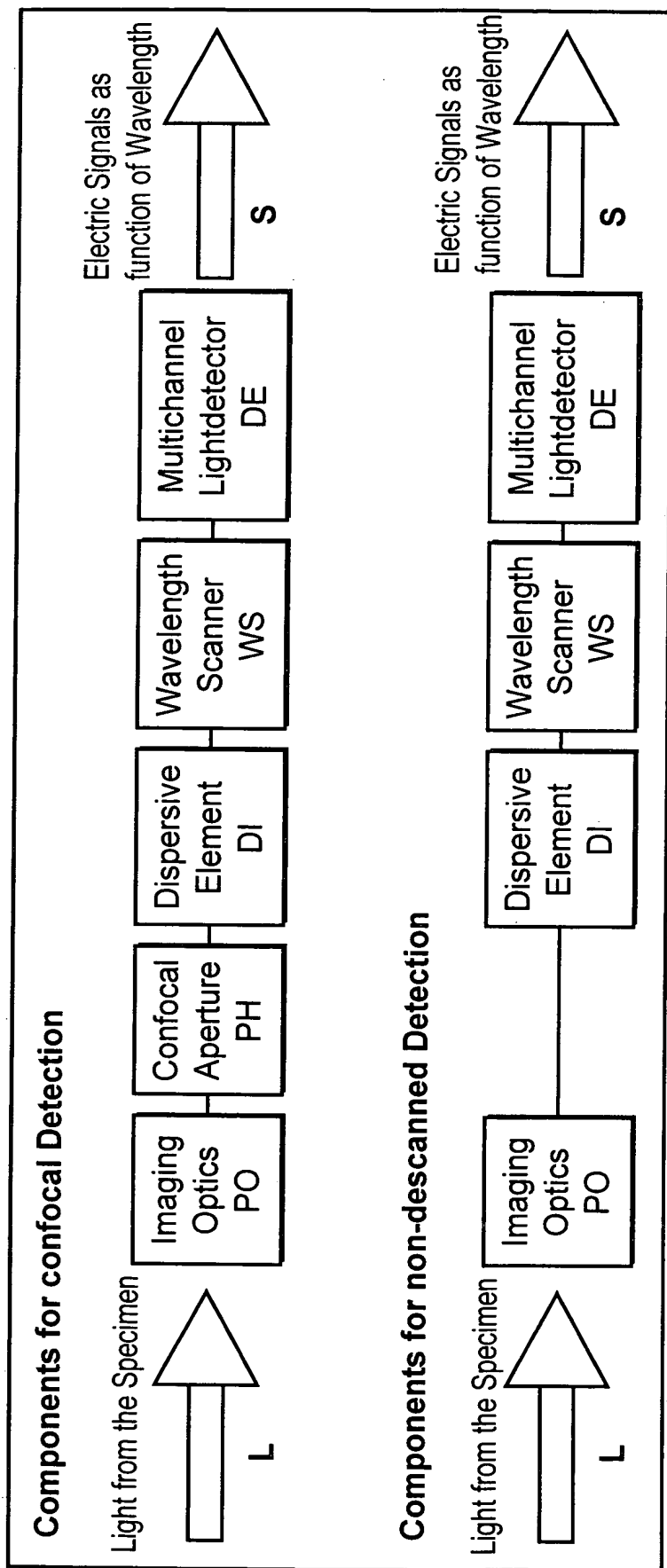
FIG. 3
PRIOR ART



Typical spectra with ratiometric measurements:

- a) a dye with emission ratio;
- b) two dyes with ion-dependent signals

FIG. 4
PRIOR ART



F I G. 5. Block diagram of detector-optics construction

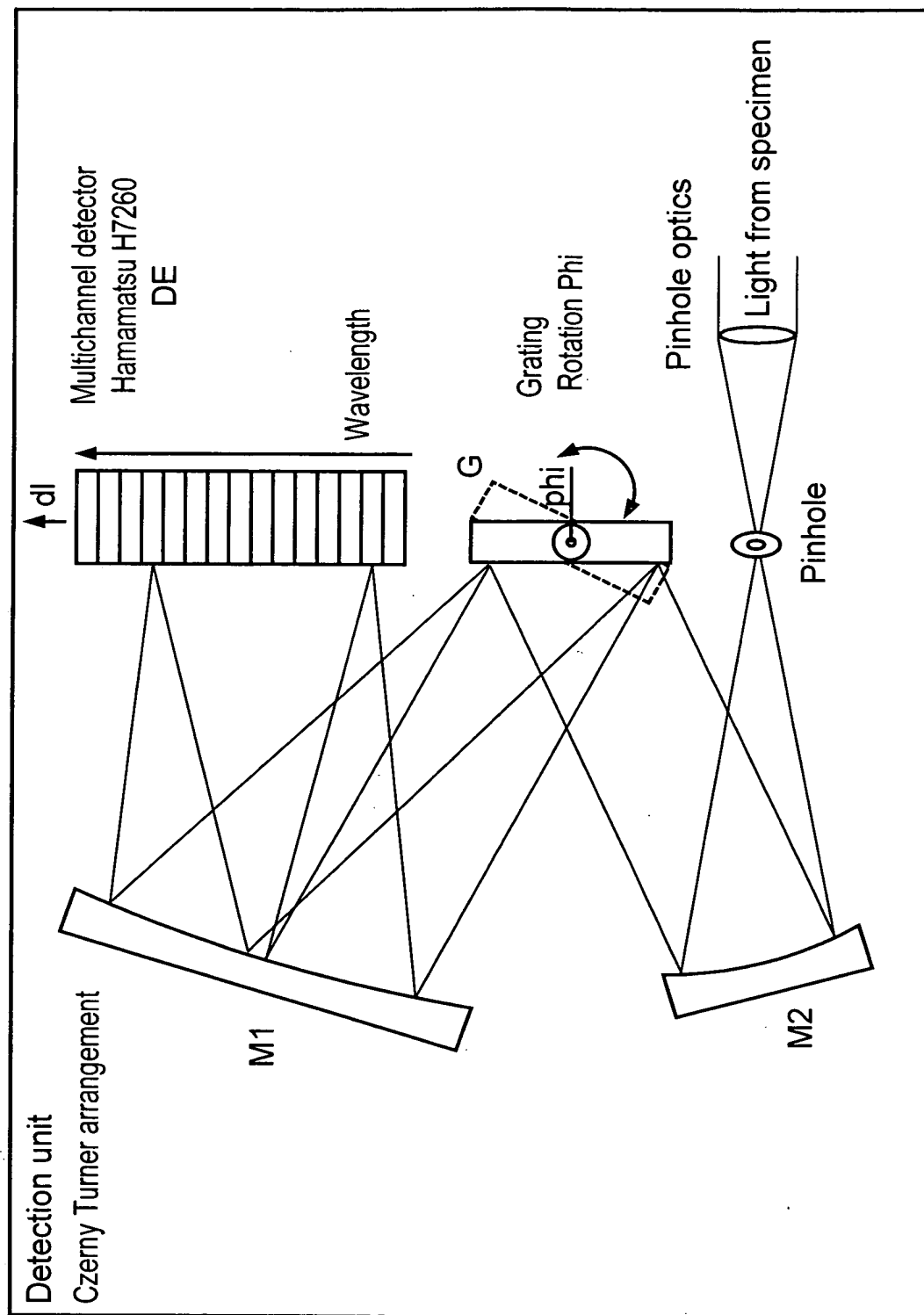
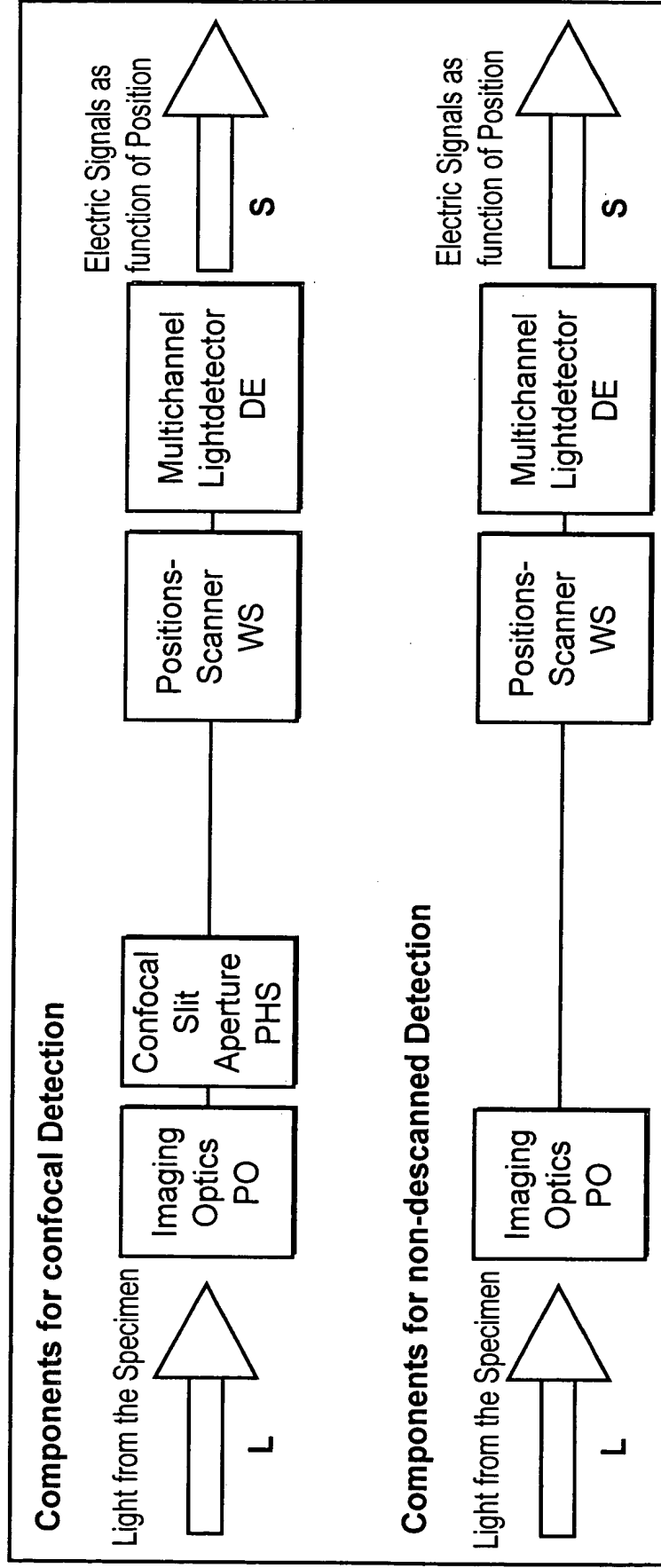
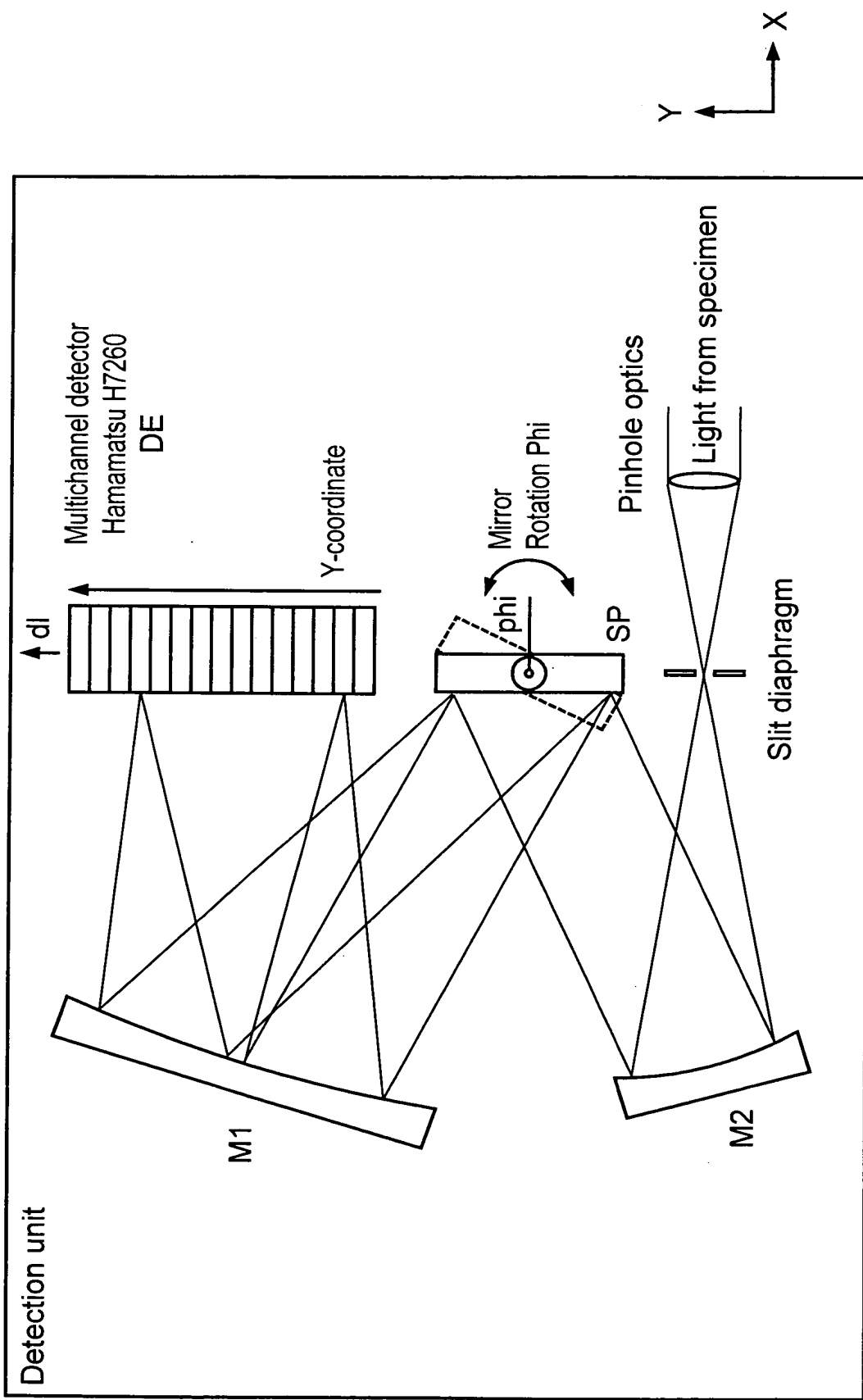


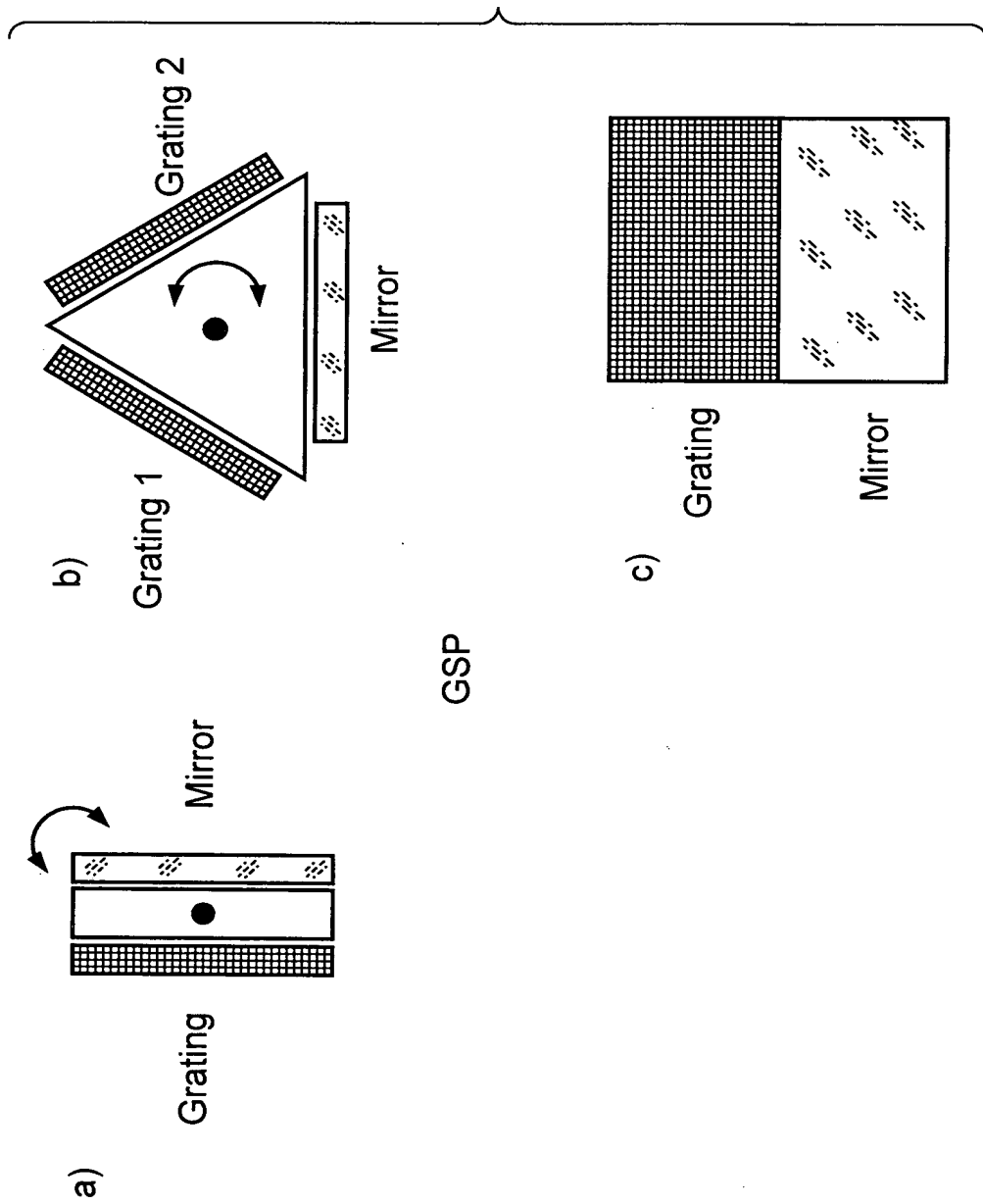
FIG. 6. Example of detector unit / optics construction



F I G. 7. Block diagram of detector unit / optics construction for line scanner



F I G. 8. Example of detector unit / optics construction for line scanner



F I G. 9. Switching Elements

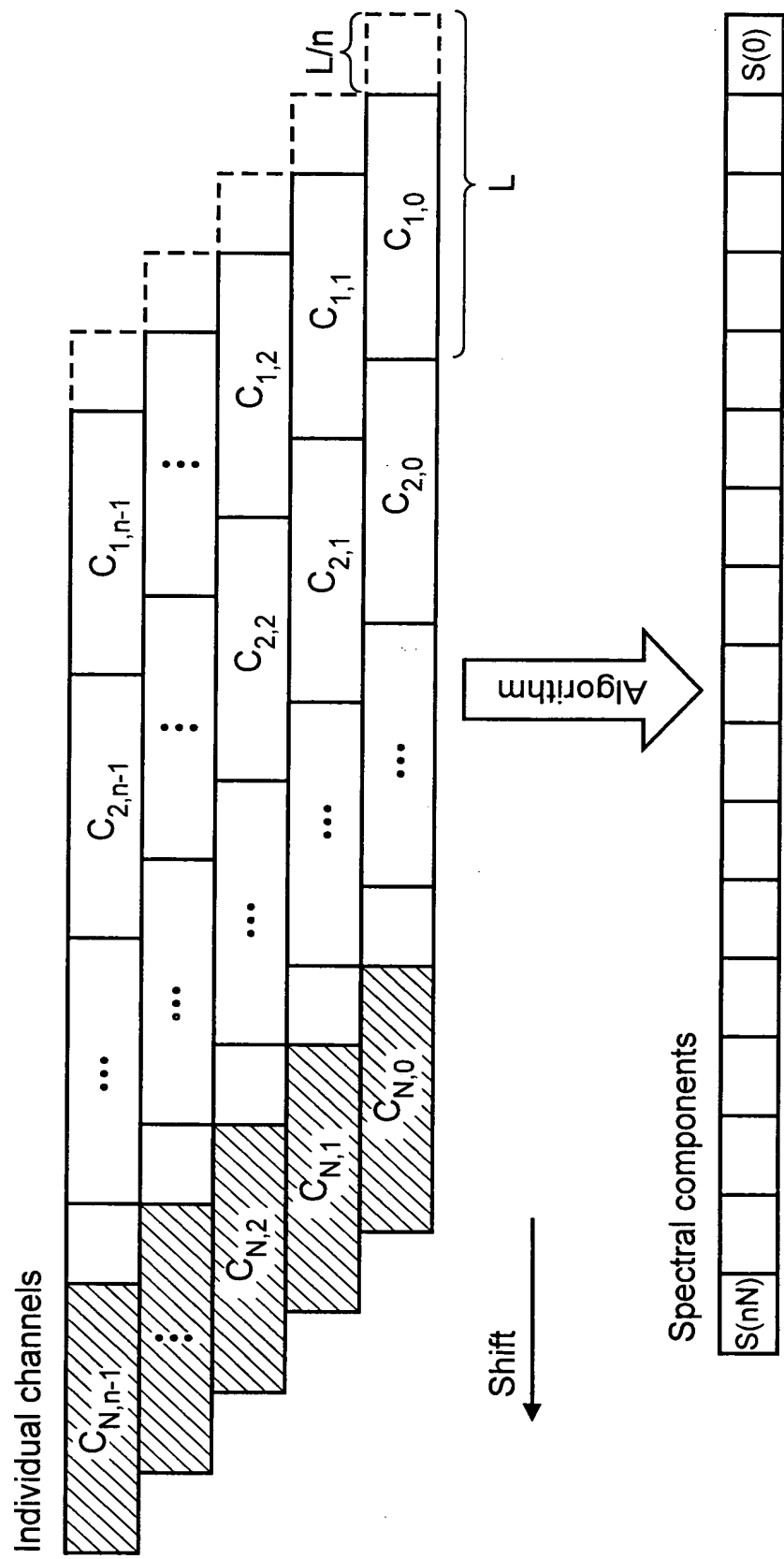


FIG. 10. Algorithm Pixelshift (top) and calculated sub-pixels (bottom)

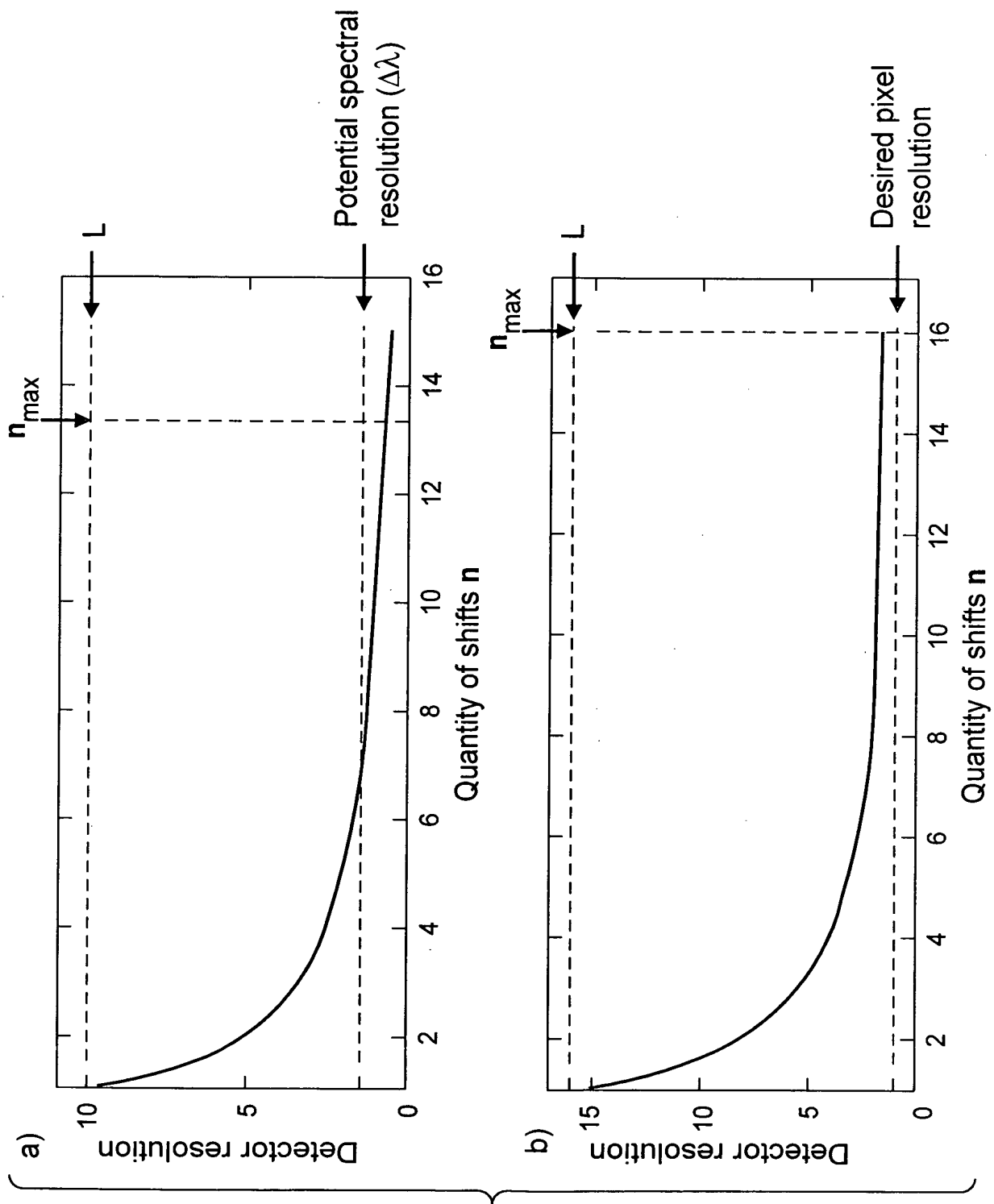


FIG. 11

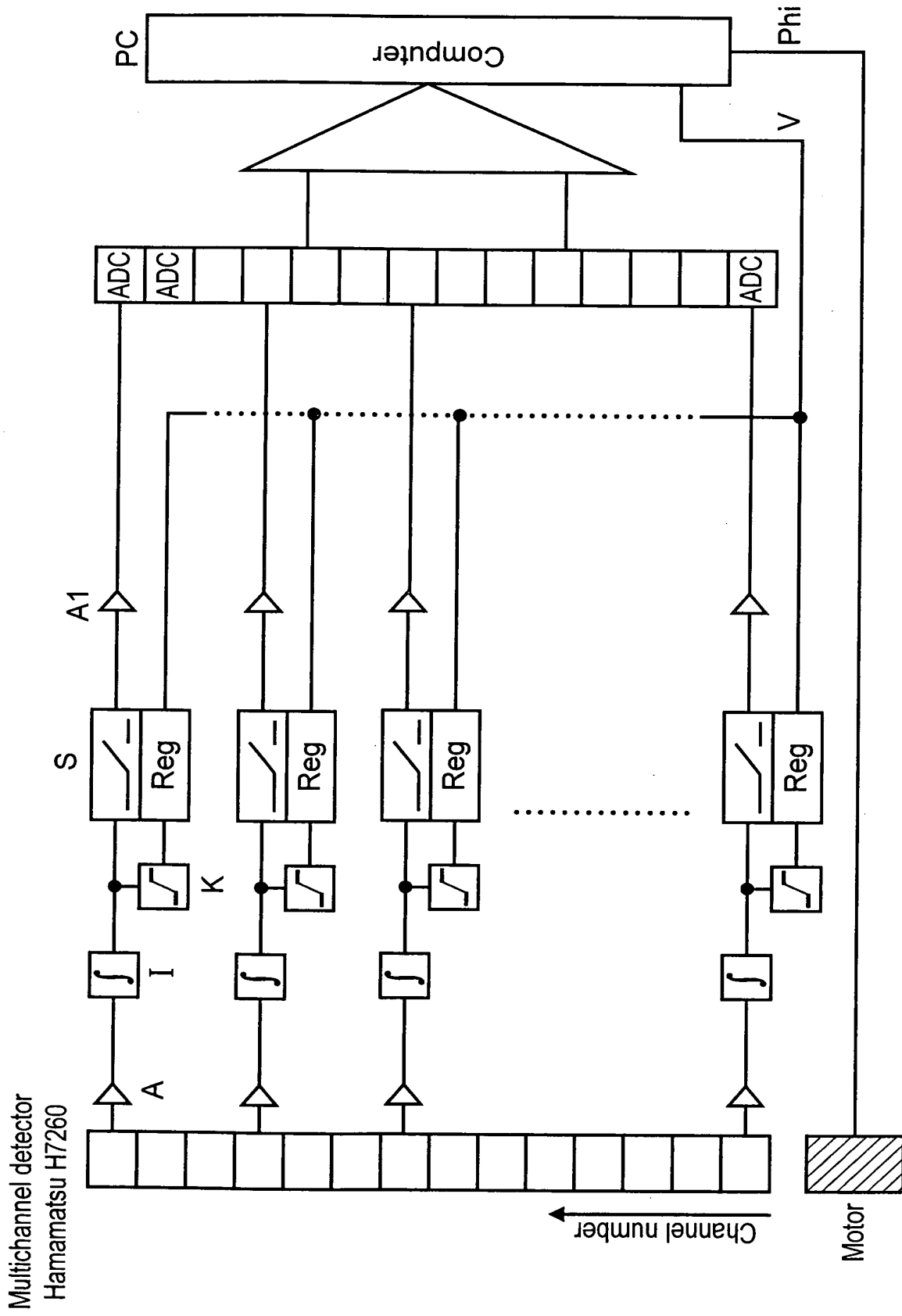


FIG. 12. Example for construction of electronics

